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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/824,284 04/02/2001 20999 7590 01/31/2005		Tetsujiro Kondo	450100-03145	9275
			EXAM	EXAMINER
FROMME	R LAWRENCE & HAU	COUSO, YON JUNG		
745 FIFTH AVENUE- 10TH FL. NEW YORK, NY 10151			ART UNIT	PAPER NUMBER
	-,		2625	

DATE MAILED: 01/31/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Anni	ication No.	Applicant(s)				
Office Action Summary		''	24,284	KONDO ET AL.				
		Exar	niner	Art Unit				
		Yon	Couso	2625				
	The MAILING DATE of this communi	cation appears o	n the cover sheet with the c	orrespondence ac	ldress			
Period for								
THE N - Extens after S - If the p - If NO - Failure Any re	PRTENED STATUTORY PERIOD FOR ALLING DATE OF THIS COMMUNI sions of time may be available under the provisions (X) (6) MONTHS from the mailing date of this commorated for reply specified above is less than thirty (3) period for reply is specified above, the maximum state to reply within the set or extended period for reply ply received by the Office later than three months at patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In unication. b) days, a reply within the tutory period will apply will, by statute, cause the	no event, however, may a reply be time the statutory minimum of thirty (30) days and will expire SIX (6) MONTHS from the application to become ABANDONE	nely filed s will be considered time the mailing date of this of D (35 U.S.C. § 133).	ty. communication.			
Status								
1) 又	Responsive to communication(s) file	d on <i>04 June 20</i>	004.					
	This action is FINAL . 2b)⊠ This action is non-final.							
,—		<i>,</i> —		secution as to the	e merits is			
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositio	on of Claims							
· _		nolication						
•	Claim(s) <u>1-35</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	 ☐ Claim(s) is/are allowed. ☐ Claim(s) 1-35 is/are rejected. ☐ Claim(s) is/are objected to. 							
	Claim(s) are subject to restric	tion and/or elect	ion requirement.					
ŕ					•			
Application								
9) The specification is objected to by the Examiner.								
<i>'</i> —	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)∐ T	he oath or declaration is objected to	by the Examine	er. Note the attached Office	Action or form P	ГО-152.			
Priority u	nder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim of All b) Some * c) None of: 1. Certified copies of the priority of Certified copies of the priority of Copies of the certified copies of application from the Internation	documents have documents have of the priority doc	e been received. e been received in Application cuments have been receive	on No	Stage			
* Se	ee the attached detailed Office action	· ·		d.				
Attachment(s)							
1) Notice	of References Cited (PTO-892)		4) Interview Summary					
	of Draftsperson's Patent Drawing Review (P		Paper No(s)/Mail Da 5) Notice of Informal Pa		O-152)			
	ation Disclosure Statement(s) (PTO-1449 or No(s)/Mail Date	- i U/3¤/U8)	6) Other:	a.o ppiioaaoii (i 11	- · /			

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1. Applicant's arguments filed June 4, 2004 have been fully considered but they are not persuasive.

- a. With regard to newly added limitations "wherein the coded data has no additional information representing the prediction method", applicants argue that specification support this limitation at page 59, lines 20-23; the last paragraph of page 54; and figure 17. Examiner notes that while specification discloses 'decoding without any overhead for decoding', there is nothing in the specification, pointed out by the applicant, to show the support for 'the coded data has no additional information representing the prediction method'.
- b. The applicant argues that since Morimoto uses an embedding rule that adds information relating to the prediction method, it cannot meet the present invention's limitation that "said coded data has no additional information representing the prediction method." The examiner disagrees. Morimoto's embedding rule can read on prediction value in the claim. Then Morimoto's coded data will not have any additional information representing the prediction method.
- 2. Claims 1-35 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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The newly added languages "wherein the coded data includes no information on the prediction method" do not have support in the originally filed specification.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5, 12-14, 16-20, and 28-35 are rejected under 35 U.S.C. § 102(b) as being anticipated by Morimoto et al., 6,005,643.

The arguments advanced in above paragraph 1 as to the applicability of the reference are incorporated herein.

For claim 1, an embedded coding apparatus for embedding first data in second data, and outputting coded data is provided by Morimoto in at least the abstract. Selecting means for selecting a predicting method for predicting data of interest in the first data, based on the second data; predicting means for obtaining a prediction value corresponding to the data of interest based on the prediction method selected by the selecting means; and prediction margin of error computing means for computing the prediction margin of error based on the data of interest and the prediction value, and outputting as the coded data is provided by Morimoto in at least c. 5, line 63 – c. 6, line 30, and the paragraph bridging cols. 6-7, where a predicted value corresponds to a prediction type, i.e. the prediction error is made from the prediction values, although Morimoto does

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not term them as prediction values, that is what they are, and properly construed as herein. The prediction values correspond to the data of interest and the data of interest based on the prediction method as shown in at least Figs. 1a-1b, and as noted in at least the third full paragraph in c. 6 to the second full paragraph in c. 7, and c. 5, line 63 – c. 6, line 30, and see also the paragraph bridging cols. 11-12, where the prediction method dictates which prediction method, values, and prediction error that is used for outputting the coded data.

For claim 2, since at least for the reason that Morimoto is seeking the data with minimum prediction error or according to the most similar region for the data of interest within the first data for a prediction, the data for producing the prediction value is clearly "nearby" as claimed.

For claim 3, see the rejection of at least claim 1 for providing for judging means for judging whether or not said second data can be embedded as to said data of interest; wherein, in the event that said judging means has judged that said second data can be embedded as to said data of interest, said selecting means makes selection of said prediction method based on said second data is provided by Morimoto where cited above. Simply, Morimoto determine if data can be embedded, and selects a specific prediction method depending on whether or not data can be embedded.

For claim 5, see the rejection of at least claim 1. Wherein said judging means judges whether or not said second data can be embedded as to said data of interest, based on said data of interest and said first data used for prediction of said data of interest is provided by Morimoto where cited above, by clearly

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determining the data of interest for where the embedded data will be and determining if it can be embedded, and other first data is clearly used in the process of prediction, since that is clearly required to ascertain the prediction error as taught by Morimoto.

For claim 12, wherein the first data is image data is provided by Morimoto by explicitly reference to video and pixel data where cited above.

For claim 13, wherein the first data and the second data is one part and the other part of the image data separated into two is provided by Morimoto where cited above, where the first and second data are embedded as one, and other parts of the image are separated in terms of pixels and macroblocks for example.

For claim 14, separating the image into two parts, for embedding the second data as the other part as to the first data as the one part is provided by Morimoto where cited above, where the image data is clearly separated into a plurality of parts including pixels and macroblocks for example, and the embedded data as the other part is embedded into the first data as one part.

For claims 16 and 34, see the rejection of at least claim 1.

For claim 17, see the rejection of at least claim 1, and the second and third full paragraphs in c. 4 of Morimoto for a computer program.

For claim 18, see the rejection of at least claim 1 for a corresponding coder of the prediction values and embedded second data. Furthermore, recognizing a prediction method for predicting a prediction value corresponding to the first data, from data of interest in the coded data; and decoding the data of

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interest into the original first data, and also decoding the second data based on the prediction method recognized by the recognizing means is provided by Morimoto in at least the first full paragraph in c. 4 and section 2 in cols. 7-8, the last full paragraph in c. 12, and the first full paragraph in c. 13, where it is clear that both the first and second data are decoded and restored to their original form prior to coding.

For claim 19, judging whether or not the second data is embedded as to the data of interest; wherein in the event that the judging means judges that the second data is embedded as to the data of interest, the second data is decoded based on the prediction method is provided by Morimoto where cited above, where it is clear that the second data is decoded based on the prediction method – the basic premise of Morimoto.

For claim 20, wherein the judging means judges whether or not the second data is embedded as to the data of interest, based on the data of interest and the first data already decoded is provided by Morimoto, because the embedded data is part of the coded data, and therefore must be decoded before the data of interest and the embedded data can be determined.

For claim 28, see the rejection of at least claim 12 for image data, which is explicitly provided by Morimoto.

For claim 29, wherein the first data and the second data is one part and the other part of the image data separated into two is provided by Morimoto where cited above, where the first and second data are embedded as one, and

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other parts of the image are separated in terms of pixels and macroblocks for example.

For claim 30, joining means for joining said decoded first data as said one part and said decoded second data as said other part, to configure the original said image is provided by Morimoto by decoding and extracting with the resulting embedded second data being joined with the first data after decoding and extracting, e.g. Fig. 3, and where cited above.

For claim 31, see the rejection of at least claims 1 and 30, wherein in the event that said second data is compressed and embedded in said first data, said decoding means decodes said compressed second data; and further wherein decoding apparatus comprises expanding means for expanding said compressed second data back into second data, said joining means joining said decoded first data and said second expanded data to configure the original said image.

For claims 32 and 35, see the rejection of at least claim 18.

For claim 33, see the rejection of at least claim 18, and the second and third full paragraphs in c. 4 of Morimoto for a computer program.

- 4. Claims 4, 6-11, 15, and 21-27 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, first paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yon Couso whose telephone number is (703) 305-4779. The examiner can normally be reached on 8:30 am –5:00 pm from Monday to Friday

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta, can be reached on (703) 308-5246. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800.

YON J. COUSO PRIMARY EXAMINE

Yjc

January 27, 2005